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TERMINAL (ENTER 1, 2, 3, 4, OR ?): 3
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* NOVEMBER 10,1998 for U.S. Current Classification Data.
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* * * * *

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FILE 'USPAT' ENTERED AT 13:38:37 ON 10 NOV 1998

* * * * *

* W E L C O M E T O T H E *

* U . S . P A T E N T T E X T F I L E *

* *

=> s RNA(P)coprecipitate

15835 RNA
1167 COPRECIPITATE
L1 3 RNA(P)COPRECIPITATE

=> d L1 1-3

1. 5,460,831, Oct. 24, 1995, Targeted transfection nanoparticles; Nir Kossovsky, et al., 424/493, 204.1, 490, 494, 498; 514/951, 970 [IMAGE AVAILABLE]
2. 4,822,512, Apr. 18, 1989, Biocidal, particularly virucidal, compositions; Thomas R. Auchincloss, 424/613; 252/187.21, 187.24; 424/665; 510/131, 372, 375 [IMAGE AVAILABLE]
3. 4,593,002, Jun. 3, 1986, Viruses with recombinant surface proteins; Renato Dulbecco, 435/91.41; 424/199.1, 217.1, 224.1, 233.1; 435/69.1, 69.3, 235.1, 239, 317.1; 536/23.1 [IMAGE AVAILABLE]

=> d L1 1-3 kwic

US PAT NO: 5,460,831 [IMAGE AVAILABLE] L1: 1 of 3

SUMMARY:

BSUM(49)

Typical preparations of transfection nanoparticles yield in the neighborhood of a tenth of a microgram of DNA (and **RNA**) per microliter of dispersion as gauged by spectrophotometric determinations over time. If higher concentrations are required, the DNA (and **RNA**) is premixed with the substrate solutions and is allowed to slowly **coprecipitate** with the core material at a pH of 6.5. The particulate size is controlled by the time wise addition and. . .

US PAT NO: 4,822,512 [IMAGE AVAILABLE] L1: 2 of 3

DETDESC:

DETD(45)

In . . . amino acids in the outer protective layers of enveloped viruses react under acid conditions as quaternary active agents and will **coprecipitate** with the dodecylbenzene sulphonate or other anionic surfactant. The lipid in the outer envelope will also be solubilised by the surfactant. In addition, the various organic constituents of the viruses, e.g. amino acids, polypeptides, and nuclear DNA or **RNA** will be oxidised at low pH either by nascent oxygen or by hypochlorous acid generated under the low pH conditions.

US PAT NO: 4,593,002 [IMAGE AVAILABLE] L1: 3 of 3

SUMMARY:

BSUM(34)

In . . . reactions using purified phage extracts. Animal virus genomes are placed into cells, typically by a technique known as DNA-calcium phosphate **coprecipitate** transfection. Precipitates made by mixing DNA, calcium chloride and phosphate buffer are known to be taken up by animal cells. Once in the cells, the viral DNA produces specific RNAs, and the **RNA's** direct the synthesis of proteins from which the intact viruses are ultimately formed.

=> coprecipit? (W)DNA(2W)RNA

'COPRECIPIT?' IS NOT A RECOGNIZED COMMAND

=> s coprecipit? (W)DNA(2W) RNA

6113 COPRECIPIT?

27332 DNA

15835 RNA

L2 0 COPRECIPIT? (W)DNA(2W) RNA

=> log y

U.S. Patent & Trademark Office LOGOFF AT 13:41:44 ON 10 NOV 1998

Trying 9351006...Open

Welcome to STN International! Enter x:x
LOGINID:sssptaul83gxk
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

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NEWS 3 Oct 7 IFICDB, IFIPAT, and IFIUDB Files Have Been Reloaded
NEWS 4 Oct 12 Meeting Locations Can Now be Searched in Various
Spellings in CONF File
NEWS 5 Oct 12 Abstracts no Longer Free of Charge in ANABSTR, CEABA,
CSNB, KKF, and VTB
NEWS 6 Oct 23 NTIS Now Updated Weekly

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=> file caplus, caold, biosis, embase, medline, WPI

'WPI' IS AN AMBIGUOUS FILE NAME

WPIDS - Derwent World Patents Index 1963 - present (Subscr.)

WPINDEX - Derwent World Patents Index 1963 - present

Enter the appropriate file name or enter "IGNORE" to continue
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ENTER A FILE NAME OR (IGNORE):wpids

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

0.15

0.15

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FILE 'MEDLINE' ENTERED AT 13:41:23 ON 10 NOV 1998

FILE 'WPIDS' ENTERED AT 13:41:23 ON 10 NOV 1998
COPYRIGHT (C) 1998 DERWENT INFORMATION LTD

=> s coprecipit?(W)DNA(2)RNA

MISSING OPERATOR 'DNA(2'

The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> help operators

The following operators are available for use in searching: 'AND',
'OR', 'NOT', (W), (NOTW), (A), (NOTA), (P), (NOTP), (S), (NOTS), (L),
(NOTL) and numeric operators. The order of precedence for the
execution of operators is (highest first): numeric operators; (W),
(NOTW), (A), and (NOTA); (S) and (NOTS); (P) and (NOTP); (L) and
(NOTL); 'AND' and 'NOT'; then 'OR'. Parentheses (nesting) can be used
to alter the order of execution. For example, the expression

=> SEARCH A AND B OR C NOT D

is equivalent to

=> SEARCH (A AND B) OR (C NOT D).

If the search logic required the set 'B OR C' to be combined with set
A by 'AND' logic and set D by 'NOT' logic, parentheses would be
required as shown below to produce the desired results.

=> SEARCH A AND (B OR C) NOT D

For more information on the individual operators, enter "HELP" and one
of the following at an arrow prompt (=>): 'NUMERIC', '(NOTPROXIMITY)',
'AND', 'OR', 'NOT', '(W)', '(A)', '(S)', '(P)', or '(L)'. Information
on specific negative proximity operators is found with the
corresponding positive proximity operator; e.g., for information on
(NOTW), enter "HELP (W)". The numeric, Boolean, and (A), (NOTA), (W),
and (NOTW) word proximity operators work the same in all files.
However, the function of the (S), (NOTS), (P), (NOTP), (L), and (NOTL)
operators depends on the datastructure of the file you are in.
Entering "HELP (S)", "HELP (P)", or "HELP (L)" will give information
about how these operators work in the current file.

=> s coprecipitat?

L1 8761 COPRECIPITAT?

=> s RNA(P)L1

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'RNA(P)L2'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'RNA(P)L3'
L2 220 RNA(P) L1

=> s RNA(4W)coprecipitat?

L3 11 RNA(4W) COPRECIPITAT?

=> d L3 1-11

L3 ANSWER 1 OF 11 BIOSIS COPYRIGHT 1998 BIOSIS
AN 98:346770 BIOSIS
DN 01346770
TI Targeting to transcriptionally active loci by the hydrophilic
N-terminal domain of Drosophila DNA topoisomerase I.
AU Shaiu W-L; Hsieh T-S
CS Dep. Biochem., Duke Univ. Med. Cent., Durham, NC 27710, USA
SO Molecular and Cellular Biology 18 (7). 1998. 4358-4367. ISSN:
0270-7306
LA English

L3 ANSWER 2 OF 11 BIOSIS COPYRIGHT 1998 BIOSIS
AN 96:484626 BIOSIS
DN 99199882
TI The yeast GAL11 protein binds to the transcription factor IIE through
GAL11 regions essential for its in vivo function.
AU Sakurai H; Kim Y-J; Ohishi T; Kornberg R D; Fukasawa T
CS Kazusa DNA Res. Inst., 1532-3 Yanauchino, Kisarazu, Chiba 292, Japan
SO Proceedings of the National Academy of Sciences of the United States
of America 93 (18). 1996. 9488-9492. ISSN: 0027-8424
LA English

L3 ANSWER 3 OF 11 BIOSIS COPYRIGHT 1998 BIOSIS
AN 96:225850 BIOSIS
DN 98781979
TI Association of the Est1 protein with telomerase activity in yeast.
AU Steiner B R; Hidaka K; Fitcher B
CS PO Box 100, Cold Spring Harbor Lab., Cold Spring Harbor, NY 11724,
USA
SO Proceedings of the National Academy of Sciences of the United States
of America 93 (7). 1996. 2817-2821. ISSN: 0027-8424
LA English

L3 ANSWER 4 OF 11 BIOSIS COPYRIGHT 1998 BIOSIS
AN 80:279358 BIOSIS
DN BA70:71854
TI EXTRACTION OF DNA RNA AND GLYCOGEN FROM OYSTERS.
AU GRAVES I L
CS DEP. PATHOBIOL., SCH. HYG. PUBLIC HEATH, JOHNS HOPKINS UNIV.,
BALTIMORE, MD. 21205, USA.
SO J INVERTEBR PATHOL 36 (1). 1980. 25-28. CODEN: JIVPAZ ISSN:
0022-2011
LA English

L3 ANSWER 5 OF 11 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 1998208670 EMBASE
TI Targeting to transcriptionally active loci by the hydrophilic
N-terminal domain of Drosophila DNA topoisomerase I.
AU Shaiu W.-L.; Hsieh T.-S.
CS T.-S. Hsieh, Department of Biochemistry, Duke University Medical
Center, Durham, NC 27710, United States. hsieh@biochem.duke.edu
SO Molecular and Cellular Biology, (1998) 18/7 (4358-4367).
Refs: 62
ISSN: 0270-7306 CODEN: MCFBD4
CY United States
DT Journal; Article
FS 021 Developmental Biology and Teratology
029 Clinical Biochemistry
LA English
SL English

L3 ANSWER 6 OF 11 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
 AN 96274439 EMBASE
 TI The yeast GAL11 protein binds to the transcription factor IIE
 through GAL11 regions essential for its in vivo function.
 AU Sakurai H.; Kim Y.-J.; Ohishi T.; Kornberg R.D.; Fukasawa T.
 CS Faculty of Medicine, School of Health Sciences, Kanazawa University,
 5-11-80 Kodatsuno, Kanazawa 920, Japan
 SO Proceedings of the National Academy of Sciences of the United States
 of America, (1996) 93/18 (9488-9492).
 ISSN: 0027-8424 CODEN: PNASA6
 CY United States
 DT Journal
 FS 004 Microbiology
 LA English
 SL English

L3 ANSWER 7 OF 11 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
 AN 96112492 EMBASE
 TI Association of the Est1 protein with telomerase activity in yeast.
 AU Steiner B.R.; Hidaka K.; Fletcher B.
 CS Cold Spring Harbor Laboratory, P.O. Box 100, Cold Spring Harbor, NY
 11724, United States
 SO Proceedings of the National Academy of Sciences of the United States
 of America, (1996) 93/7 (2817-2821).
 ISSN: 0027-8424 CODEN: PNASA6
 CY United States
 DT Journal
 FS 029 Clinical Biochemistry
 LA English
 SL English

L3 ANSWER 8 OF 11 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
 AN 91040002 EMBASE
 TI An E. coli ribonucleoprotein containing 4.5S RNA resembles mammalian
 signal recognition particle.
 AU Poritz M.A.; Bernstein H.D.; Strub K.; Zope D.; Wilhelm H.; Walter
 P.
 CS Department of Biochemistry and Biophysics, University of California
 Medical School, San Francisco, CA 94143-0448, United States
 SO SCIENCE, (1990) 250/4984 (1111-1117).
 ISSN: 0036-8075 CODEN: SCIEAS
 CY United States
 DT Journal
 FS 004 Microbiology
 029 Clinical Biochemistry
 LA English

L3 ANSWER 9 OF 11 MEDLINE
 AN 1998298279 MEDLINE
 DN 98298279
 TI Targeting to transcriptionally active loci by the hydrophilic
 N-terminal domain of Drosophila DNA topoisomerase I.
 AU Shaiu W L; Hsieh T S
 CS Department of Biochemistry, Duke University Medical Center, Durham,
 North Carolina 27710, USA.
 NC GM29006 (NIGMS)
 SO MOLECULAR AND CELLULAR BIOLOGY, (1998 Jul) 18 (7) 4358-67.
 Journal code: NGY. ISSN: 0270-7306.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199809
 EW 19980903

L3 ANSWER 10 OF 11 MEDLINE
 AN 96382493 MEDLINE
 DN 96382493
 TI The yeast GAL11 protein binds to the transcription factor IIE through GAL11 regions essential for its in vivo function.
 AU Sakurai H; Kim Y J; Ohishi T; Kornberg R D; Fukasawa T
 CS Laboratory of Molecular Genetics, Keio University School of Medicine, Tokyo, Japan.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1996 Sep 3) 93 (18) 9488-92.
 Journal code: PV3. ISSN: 0027-8424.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals; Cancer Journals
 EM 199612

L3 ANSWER 11 OF 11 MEDLINE
 AN 96181489 MEDLINE
 DN 96181489
 TI Association of the Est1 protein with telomerase activity in yeast.
 AU Steiner B R; Hidaka K; Futchler B
 CS Cold Spring Harbor Laboratory, New York 11724, USA.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1996 Apr 2) 93 (7) 2817-21.
 Journal code: PV3. ISSN: 0027-8424.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals; Cancer Journals
 EM 199608

=> d L3 1-11 kwia

L3 ANSWER 1 OF 11 BIOSIS COPYRIGHT 1998 BIOSIS
 AB . . . to the developmental puffs after recovery from heat shock By immunoprecipitation, we showed that two of the largest subunits of **RNA pol II coprecipitated** with the N-terminal 315-residue fusion protein by using antibodies against beta-galactosidase. These data suggest that the topo I fusion protein. . .

L3 ANSWER 2 OF 11 BIOSIS COPYRIGHT 1998 BIOSIS
 AB . . . in vivo function respectively participates in the binding to the small and large subunits of TFIIE. The largest subunit of **RNA polymerase II was coprecipitated** by anti-hemagglutinin epitope antibody from crude extract of GAL11 wild type yeast expressing hemagglutinin-tagged small subunit of TFIIE. Such a. . .

L3 ANSWER 3 OF 11 BIOSIS COPYRIGHT 1998 BIOSIS
 AB . . . senescent phenotype. To see if Est1 might be a component of yeast telomerase, we examined immunoprecipitated Est1. The yeast telomerase RNA Tlc1 specifically **coprecipitated** with Est1. Furthermore, the Est1 immunoprecipitates contained a telomerase-like activity. As expected for yeast telomerase, the activity elongated telomeric primers,. . .

L3 ANSWER 4 OF 11 BIOSIS COPYRIGHT 1998 BIOSIS
 AB . . . [Crassostrea virginica], using methods effective for the HeLa [human cervical carcinoma] cells. From the eggs, most of the (CHO)N and **RNA coprecipitated** in 20% ethanol, whereas the DNA precipitated from 50% ethanol solutions. From the combined tissues all 3 macromolecules precipitated in. . .

- L3 ANSWER 5 OF 11 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
 AB . . . to the development of puffs after recovery from heat shock. By immunoprecipitation, we showed that two of the largest subunits of RNA pol II coprecipitated with the N-terminal 315-residue fusion protein by using antibodies against beta.-galactosidase. These data suggest that the topo I fusion.
- L3 ANSWER 6 OF 11 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
 AB . . . in vivo function respectively participates in the binding to the small and large subunits of TFIIE. The largest subunit of RNA polymerase II was coprecipitated by anti-hemagglutinin epitope antibody from crude extract of GAL11 wild type yeast expressing hemagglutinin-tagged small subunit of TFIIE. Such a . . .
- L3 ANSWER 7 OF 11 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
 AB . . . senescent phenotype. To see if Est1 might be a component of yeast telomerase, we examined immunoprecipitated Est1. The yeast telomerase RNA Tlc1 specifically coprecipitated with Est1. Furthermore, the Est1 immunoprecipitates contained a telomerase-like activity. As expected for yeast telomerase, the activity elongated telomeric primers, . . .
- L3 ANSWER 8 OF 11 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
 AB . . . and can replace 75S RNA in an enzymatic assay. The product of a dominant mutation in the ffs gene (4.5S RNA(d11)) is also coprecipitated by the antiserum to ffh protein and is lethal when expressed from an inducible promoter. After induction of 4.5S RNA(d11), . . .
- L3 ANSWER 9 OF 11 MEDLINE
 AB . . . to the developmental puffs after recovery from heat shock. By immunoprecipitation, we showed that two of the largest subunits of RNA pol II coprecipitated with the N-terminal 315-residue fusion protein by using antibodies against beta-galactosidase. These data suggest that the topo I fusion protein.
- L3 ANSWER 10 OF 11 MEDLINE
 AB . . . in vivo function respectively participates in the binding to the small and large subunits of TFIIE. The largest subunit of RNA polymerase II was coprecipitated by anti-hemagglutinin epitope antibody from crude extract of GAL11 wild type yeast expressing hemagglutinin-tagged small subunit of TFIIE. Such a . . .
- L3 ANSWER 11 OF 11 MEDLINE
 AB . . . senescent phenotype. To see if Est1 might be a component of yeast telomerase, we examined immunoprecipitated Est1. The yeast telomerase RNA Tlc1 specifically coprecipitated with Est1. Furthermore, the Est1 immunoprecipitates contained a telomerase-like activity. As expected for yeast telomerase, the activity elongated telomeric primers, . . .

=> s precipitation(2W)DNA(2W)RNA

L4 5 PRECIPITATION(2W) DNA(2W) RNA

=> d L4 1-5

L4 ANSWER 1 OF 5 BIOSIS COPYRIGHT 1998 BIOSIS
 AN 90:193618 BIOSIS
 DN BA89:100289
 TI COPRECIPITATION OF TRACE METALS BY DNA AND RNA MOLECULES.
 AU FUJIWARA K; KOJYO R-E; OKADA H; KODAMA Y

CS FACULTY INTEGRATED ARTS SCIENCES, HIROSHIMA UNIV., 1-1-89
HIGASHISENBA-MACHI, HIROSHIMA 730, JPN.
SO ANAL CHEM 61 (5). 1990. 500-502. CODEN: ANCHAM ISSN: 0003-2700
LA English

L4 ANSWER 2 OF 5 BIOSIS COPYRIGHT 1998 BIOSIS
AN 78:46918 BIOSIS
DN BR14:46918
TI ISOLATION OF NUCLEI AND PREPARATION OF CHROMATIN FROM PLANT TISSUES.
AU STOUT J T; MERLEY C K
SO STEIN, GARY, JANET STEIN AND JAMES J. KLEINSMITH (ED.). METHODS IN
CELL BIOLOGY, VOL. XVI. CHROMATIN AND CHROMOSOMAL PROTEIN RESEARCH.
I. XIX+494P. ILLUS. ACADEMIC PRESS, INC.: NEW YORK, N.Y., USA;
LONDON, ENGLAND. 1977 87-90 ISBN: 0-12-564116-8
LA Unavailable

L4 ANSWER 3 OF 5 BIOSIS COPYRIGHT 1998 BIOSIS
AN 76:231724 BIOSIS
DN BA62:61724
TI SEPARATION AND CHARACTERIZATION OF TRANSCRIPTIONALLY ACTIVE AND
INACTIVE NUCLEAR SUBFRACTIONS OF AKR MOUSE EMBRYO CELLS.
AU WEBSTER R A; MOSES H L; SPEDER B G T C
SO CANCER RES 46 (8). 1976 2890-2904. CODEN: CNREA8 ISSN: 0008-5472
LA Unavailable

L4 ANSWER 4 OF 5 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.
AN 96185100 EMBASE
TI Methods and reagents - Carriers for precipitating nucleic acids.
AU Hengen P N
CS National Cancer Institute, Frederick Cancer Res./Developm. Ctr,
Frederick, MD 21702-1201, United States
SO Trends in Biochemical Sciences, (1996) 21/6 (224-225).
ISSN: 0968-2004 CODEN: TBSL
CY United Kingdom
DT Journal
FS 029 Clinical Biochemistry
LA English
SL English

L4 ANSWER 5 OF 5 MEDLINE
AN 96280423 MEDLINE
DN 96280423
TI Carriers for precipitating nucleic acids.
AU Hengen P N
CS National Cancer Institute, Frederick Cancer Research and Development
Center, Frederick, MD 21702-1201, USA.. pnh@ncifcrf.gov
SO TRENDS IN BIOCHEMICAL SCIENCES, (1996 Jun) 21 (6) 224-5.
Journal code: WEF. ISSN: 0968-2004.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL) (ARTICLE)
LA English
EM 199702
EW 19970204

=> d his

(FILE 'HOME' ENTERED AT 13:40:00 ON 10 NOV 1998)

FILE 'CAPINS, CAOLD, BIOSIS, EMBASE, MEDLINE, WPIDS' ENTERED AT
13:41:23 ON 10 NOV 1998

L1 876.13 COPRECIPITAT?
L2 22 RNA(P)L1
L3 1. RNA(4W)COPRECIPITAT?
L4 1. PRECIPITATION; RNA(4W)RNA

=> d
L4 5 ab, kwic

L4 ANSWER 5 OF 5 MEDLINE

AB Methods and reagents is a unique monthly column that highlights current discussions in the newsgroup bionet.molbio.methds-reagnts, available on the Internet. This month's column provides some tips for the **precipitation** of DNA and RNA samples. For details on how to partake in the newsgroup, see the accompanying box.

AB that highlights current discussions in the newsgroup bionet.molbio.methds-reagnts, available on the Internet. This month's column provides some tips for the **precipitation** of DNA and RNA samples. For details on how to partake in the newsgroup, see the accompanying box.

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SESSION

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57.89

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